L Number	Hits	Search Text	DB	Time stamp
- Namber	57	"object security" and "digital signature"	USPAT;	2003/10/07
			US-PGPUB;	15:02
			EPO; JPO; DERWENT;	
			IBM TDB	
_	24	("object security" and "digital	USPAT;	2003/10/01
		signature") and (cable "CATV" video)	US-PGPUB;	16:27
			EPO; JPO;	
			DERWENT; IBM TDB	
-	1	("20010010720").PN.	USPAT;	2003/10/01
			US-PGPUB	16:34
-	1049	713/176	USPAT;	2003/10/01
	66	(713/176 and @ad<19991112) and ((send\$3	US-PGPUB USPAT;	16:43 2003/10/01
-	00	transmit\$4) near signature)	US-PGPUB	16:46
-	242	(713/176 and @ad<19991112) and (cable	USPAT;	2003/10/01
		"TV" television "CATV" (set adj top)	US-PGPUB	17:09
	_	decoder)	Habra.	2002/10/02
-	6	("4805222" "5625693" "5703995" "5999637" "6163644" "6272253").PN.	USPAT	2003/10/02
_	3	thomsen and consumer and electronics	EPO; JPO;	2003/10/02
,			DERWENT;	10:59
			IBM_TDB	0000/10/00
-	1	2001-265984.NRAN.	DERWENT	2003/10/02
_	22	"5625693"	USPAT;	2003/10/02
	22		US-PGPUB	11:00
-	1	("5625693").PN.	USPAT;	2003/10/02
	_		US-PGPUB	12:33
-	1	(("5933498").PN.) and (signature sign hash \$crypt\$)	USPAT; US-PGPUB	2003/10/02 12:50
_	1	(("5933498").PN.) and (signature sign	USPAT;	2003/10/02
	_	hash (\$crypt\$ near rule))	US-PGPUB	12:58
-	1795	@ad<19991112 and ((signature sign) adj3	USPAT;	2003/10/02
	62	both) @ad<19991112 and (((signature sign) adj3	US-PGPUB USPAT;	13:06 2003/10/02
-	62	both) same separate)	US-PGPUB	13:07
-	94	@ad<19991112 and (((signature sign) adj3	USPAT;	2003/10/02
		both) same separate\$)	US-PGPUB	13:07
-	18	<pre>@ad<19991112 and (((signature sign) adj3 both) and ((transmit\$4 send\$3) near</pre>	USPAT; US-PGPUB	2003/10/02 13:46
		separate\$))	32 19101	13.10
-	1	("6005938").PN.	USPAT;	2003/10/02
]			US-PGPUB	13:46
-	600	713/176 and @ad<19991112	USPAT; US-PGPUB	2003/10/02
_	477	(713/176 and @ad<19991112) and (multiple	USPAT;	2003/10/02
	'''	separate\$3)	US-PGPUB	13:51
-	89	((713/176 and @ad<19991112) and (multiple	USPAT;	2003/10/02
	70	separate\$3)) and (cable and distribut\$3) (((713/176 and @ad<19991112) and	US-PGPUB USPAT;	13:51 2003/10/07
-	78	(((/13/1/6 and @ad<19991112) and (multiple separate\$3)) and (cable and	USPAT; US-PGPUB	15:54
		distribut\$3)) and access		
-	28	((((713/176 and @ad<19991112) and	USPAT;	2003/10/02
		(multiple separate\$3)) and (cable and	US-PGPUB	13:53
·		distribut\$3)) and access) and authorization		
_	19	(((((713/176 and @ad<19991112) and	USPAT;	2003/10/02
1		(multiple separate\$3)) and (cable and	US-PGPUB	14:18
		distribut\$3)) and access) and		
		authorization) and signature	HCDAM.	2003/10/02
-	35	"5933498"	USPAT; US-PGPUB	2003/10/02 14:18
_	21	"5933498" and (hash signature sign)	USPAT;	2003/10/02
			US-PGPUB	15:07
-	470	Qad<19991112 and ((EMM ECM) same (program	USPAT;	2003/10/02
<u> </u>	150	instance service))	US-PGPUB USPAT;	15:08 2003/10/02
-	456	(scientific-atlanta).as.	USPAT; US-PGPUB	15:08

Search History 10/8/03 2:18:02 PM Page 1

_	12	((scientific-atlanta).as.) and	USPAT;	2003/10/02
		(@ad<19991112 and ((EMM ECM) same	US-PGPUB	15:08
		(program instance service)))		
-	74	5420866.URPN.	USPAT	2003/10/02
				15:11
-	412	713/176.ccls. and @ad<19991112	USPAT;	2003/10/06
			US-PGPUB	08:52
_	111	725/25.ccls. and @ad<19991112	USPAT;	2003/10/06
		• • • • • • • • • • • • • • • • • • • •	US-PGPUB	08:36
-	10071	713/.ccls. and @ad<19991112	USPAT;	2003/10/06
			US-PGPUB	08:53
_	6	(713/.ccls. and @ad<19991112) and	USPAT;	2003/10/06
		(725/25.ccls. and @ad<19991112)	US-PGPUB	09:12
_	128	713/181.ccls. and @ad<19991112	USPAT;	2003/10/06
	120	7137 101.0013. una caa(13331111	US-PGPUB	09:12
1_	31	(("conditional access" or (("ECM" "EMM")	USPAT;	2003/10/06
-	31	near (instance object))) and ((signature	US-PGPUB	09:25
		hash authenticat\$3 verif\$3) near	OD TOTOL	05.25
		(multipl\$3 pluralit\$3)))		
	120	(multiples pluralities))) 713/167.ccls.	USPAT;	2003/10/06
-	129	/13/16/.CC1S.		, , , , , ,
	170	200/220 gg]g	US-PGPUB	09:25 2003/10/06
-	173	380/239.ccls.	USPAT;	1 ' ' '
	_	200/2201 712/267 3	US-PGPUB	09:25
-	1	380/239.ccls. and 713/167.ccls.	USPAT;	2003/10/06
		200/000 3 712/167 3	US-PGPUB	09:25
-	301	380/239.ccls. 713/167.ccls.	USPAT;	2003/10/06
		(200 /000) 570 /165 3	US-PGPUB	09:26
<u> -</u>	256	(380/239.ccls. 713/167.ccls.) and	USPAT;	2003/10/06
		@ad<19991112	US-PGPUB	09:26
-	75	((380/239.ccls. 713/167.ccls.) and	USPAT;	2003/10/06
		@ad<19991112) and ("digital signature"	US-PGPUB	09:26
		hash)		
-	2000	((signature hash authenticat\$3 verif\$3)	USPAT;	2003/10/06
		near (multiple plurality))	US-PGPUB	09:35
-	1103	((signature hash authenticat\$3 verif\$3)	USPAT;	2003/10/06
		near (multiple plurality)) and	US-PGPUB	09:35
		@ad<19991112		
_	16819	"TOWNSEND AND TOWNSEND"	USPAT;	2003/10/06
			US-PGPUB	09:36
_	12022	"TOWNSEND AND TOWNSEND" and "CREW"	USPAT;	2003/10/06
		·	US-PGPUB	09:36
_	126	("TOWNSEND AND TOWNSEND" and "CREW") and	USPAT;	2003/10/06
		(hash)	US-PGPUB	09:45
_	22	(sprunk and eric).in.	USPAT;	2003/10/06
			US-PGPUB	09:58
-	133	713/181.ccls.	USPAT	2003/10/06
				12:53
-	33	713/177.ccls.	USPAT	2003/10/06
				12:54
_	33	713/177.ccls. and @ad<19991112	USPAT	2003/10/06
•			1	15:11
-	11	("4309569" "4661658" "4850177"	USPAT	2003/10/06
		"4908861" "4918728" "4924514"		13:50
		"4924515" "4941176" "4993069"		
		"5007089" "5103478").PN.		
-	l 8	("4405829" "4625076" "4868877"	USPAT	2003/10/06
	l	"4881264" "4972474" "5001752"		14:02
		"5136646" "5136647").PN.		
_	39		USPAT	2003/10/06
	1			14:45
_	2	"detached signature"	USPAT	2003/10/06
1.				16:21
-	2949	(hash or (digital adj sign\$6)) adj (one	USPAT	2003/10/06
		two multiple plurality many several)		16:23
_	2716		USPAT	2003/10/06
	2/10	two multiple plurality many several)) and		16:22
		Cad<19991112		- 3 - 2 -
1_	93	Ŧ ··	USPAT	2003/10/07
-	33	(nash) adj (one two multiple plurality many several)	JULAI	15:54
1_	26		USPAT	2003/10/06
-	26	((concat\$6) near (one two multiple	ODEVI	16:25
	1	((concatse) near (one two multiple plurality many several))		10.23
L	<u> </u>	hinratich many several!	L	

-	10		USPAT	2003/10/06
		same ((concat\$6) near (one two multiple		16:52
		plurality many several))		
-	326	(hash or (digital\$2 adj (sign	USPAT	2003/10/06
		signature))) same ((concat\$6))		16:52
_	60	(hash or (digital\$2 adj (sign	USPAT	2003/10/06
		signature))) adj3 ((concat\$6))		17:09
<u> </u>	10	message adj spooler	USPAT;	2003/10/06
			US-PGPUB;	17:11
			EPO; JPO;	_
			DERWENT;	1
			IBM TDB	
_	608	object near signature	USPAT;	2003/10/06
	""	Object hear bighature	US-PGPUB;	17:11
			EPO; JPO;	17.11
			DERWENT;	
	1		IBM TDB	
	2	signatory adj group	USPAT;	2003/10/06
-		signatory adj group	EPO; JPO;	17:23
	1		DERWENT;	17.23
	-	/#4200770# #4206215# #4210502#	IBM_TDB USPAT	2003/10/06
-	7		USPAT	
		"4218738" "4288659" "4405829"		17:18
	_	"4424414").PN.		0000/10/55
-	32	5568554.URPN.	USPAT	2003/10/06
				17:19
-	127	@ad<19991112 and (hash or (digital\$3 adj	USPAT;	2003/10/06
	ì	(sign signature))) and ("ECM" "EMM"	EPO; JPO;	17:24
	į	entitlements)	DERWENT;	
1.			IBM TDB	
_	127	@ad<19991112 and (hash or (digital\$3 adj	USPAT;	2003/10/06
		(sign signature))) and ("ECM" "EMM"	EPO; JPO;	17:24
		entitlement)	DERWENT;	
			IBM TDB	l
_	25	@ad<19991112 and (hash or (digital\$3 adj	USPAT;	2003/10/07
		(sign signature))) same ("ECM" "EMM"	EPO; JPO;	09:20
		entitlement)	DERWENT;	""
		enciclement,	IBM TDB	
	3	("5073930" "5642151" "5787335").PN.	USPAT	2003/10/07
-)	(5075950 5042151 5707555).EM.	USFAI	09:19
	46	"5870474"	USPAT;	2003/10/07
-	40	3070474	EPO; JPO;	09:20
				09.20
			DERWENT;	
	1 _	/ / U.E. 4.0.0.0.C.(II.) / U.E. 0.E.0.4.7.4.11.1	IBM_TDB	2003/10/07
-	2	(("5420866") or ("5870474")).PN.	USPAT;	2003/10/07
		1,	US-PGPUB	10:17
-	12	key near (separat\$3) near (packets stream	USPAT;	2003/10/07
		object)	US-PGPUB	10:26
-	8	key near (separat\$3) near (message)	USPAT;	2003/10/07
			US-PGPUB	12:50
-	22	("0033189" "4405829" "4531020"	USPAT	2003/10/07
	I	"4613901" "4634807" "4912762"		11:15
	Į.	"5029207" "5124117" "5237610"		
	1	"5341525" "5381481" "5400401"	}	
		"5420866" "5473692" "5481542"		į i
		"5481613" "5557678" "5557765"		
		"5559889" "5563950" "5568552"		
1		"5583939").PN.		
_	1	("5,933,498").PN.	USPAT;	2003/10/07
	1	. , ,	US-PGPUB	16:10
_	702	@ad<19991112 and "conditional access"	USPAT;	2003/10/07
	1 ,02	Cad (1))) 11 and Conditional access	US-PGPUB	13:45
1_	141	(@ad<19991112 and "conditional access")	USPAT;	2003/10/07
1	141	and entitlement	US-PGPUB	13:45
1.	0.4		USPAT;	2003/10/07
1 -	84	@ad<19991112 and ("OOB" "out of band")	•	
		/0-4/10001112 ///ODB/ // \	US-PGPUB	14:12
-	27	(@ad<19991112 and ("OOB" "out of band")	USPAT;	2003/10/07
L	<u> </u>) and broadcast	US-PGPUB	14:10

	27	(US-6611958-\$ or US-6546557-\$ or US-6526070-\$ or US-6490727-\$ or US-6457138-\$ or US-6408334-\$ or US-6243364-\$ or US-6154206-\$ or US-6124878-\$ or US-6069957-\$ or US-6040851-\$ or US-5930361-\$ or US-5966531-\$ or US-5793413-\$ or US-5666487-\$ or US-5793413-\$ or US-5581778-\$ or US-5579527-\$ or US-5570295-\$ or US-557798-\$ or US-557798-\$ or US-557798-\$ or US-5537417-\$ or US-5339392-\$ or US-5537417-\$ or US-5544161-\$).did. or (US-20030133050-\$).did.	USPAT; US-PGPUB	2003/10/07 14:11
	27	((US-6611958-\$ or US-6546557-\$ or US-6526070-\$ or US-6490727-\$ or US-6457138-\$ or US-6408334-\$ or US-6243364-\$ or US-6154206-\$ or US-6124878-\$ or US-6069957-\$ or US-6040851-\$ or US-5966531-\$ or US-5930361-\$ or US-5867723-\$ or US-5793413-\$ or US-5666487-\$ or US-5630204-\$ or US-5581778-\$ or US-5579527-\$ or US-557798-\$ or US-557798-\$ or US-557798-\$ or US-557798-\$ or US-557798-\$ or US-5557798-\$ or US-5187787-\$ or US-5257369-\$ or US-5339392-\$ or US-5537417-\$ or US-5544161-\$).did. or (US-20030133050-\$).did.) and ("OOB" "out	USPAT; US-PGPUB	2003/10/07
	27	of band") ((US-6611958-\$ or US-6546557-\$ or US-6526070-\$ or US-6490727-\$ or US-6457138-\$ or US-6408334-\$ or US-6243364-\$ or US-6154206-\$ or US-6124878-\$ or US-6069957-\$ or US-6040851-\$ or US-5966531-\$ or US-5930361-\$ or US-5867723-\$ or US-5793413-\$ or US-5666487-\$ or US-5793413-\$ or US-5581778-\$ or US-5579527-\$ or US-5570295-\$ or US-55798-\$ or US-557798-\$ or US-5557798-\$ or US-5339392-\$ or US-5537417-\$ or US-5544161-\$).did. or (US-20030133050-\$).did.) and ("OOB" "out of band" "out-of-band")	USPAT; US-PGPUB	2003/10/07 14:15
-	3501	<pre>@ad<19991112 and ("OOB" "out of band" "out-of-band")</pre>	USPAT; US-PGPUB	2003/10/07 14:16
-	26	<pre>@ad<19991112 and (("OOB" "out of band" "out-of-band") near (allow\$3 enabl\$3 benefi\$5 because))</pre>	USPAT; US-PGPUB	2003/10/07 14:17
-	5	<pre>@ad<19991112 and (("OOB" "out of band" "out-of-band") near ("conditional access" entitlement authorization))</pre>	USPAT; US-PGPUB	2003/10/07 14:19
-	15212	<pre>@ad<19991112 and (("OOB" "out of band" "out-of-band") saem ("conditional access" entitlement authorization))</pre>	USPAT; US-PGPUB	2003/10/07 14:19
-	91	<pre>@ad<19991112 and (("OOB" "out of band" "out-of-band") same ("conditional access" entitlement authorization))</pre>	USPAT; US-PGPUB	2003/10/07 14:27
- .	633	<pre>@ad<19991112 and (("OOB" "out of band" "out-of-band") same (bandwidth))</pre>	USPAT; US-PGPUB	2003/10/07 14:27
-	23	<pre>@ad<19991112 and (("OOB" "out of band" "out-of-band") near (bandwidth))</pre>	USPAT; US-PGPUB	2003/10/07 14:27

	,			
-	32	signatures near compromis\$3	USPAT;	2003/10/07
'			US-PGPUB;	15:05
			EPO; JPO;	
			DERWENT;	
			IBM TDB	
_	4	"signatures" same (compromis\$3 near	USPAT;	2003/10/07
	,	algorithm)	US-PGPUB;	15:06
		argoricinu	EPO; JPO;	13.00
			DERWENT;	
	_	/# CO.F. CO.O.O.W	IBM_TDB	0000/10/07
] -	1	("6256393").PN.	USPAT;	2003/10/07
			US-PGPUB	16:42
, -	715	(general and instrument and	USPAT;	2003/10/07
		corporation).as. ("GI Corporation").as.	US-PGPUB	16:43
-	21	(((general and instrument and	USPAT;	2003/10/07
		corporation).as. ("GI Corporation").as.)	US-PGPUB	16:44
		and (access adj control)) and object		
l <u>-</u>	1 7	((((general and instrument and	USPAT;	2003/10/07
	,	corporation).as. ("GI Corporation").as.)	US-PGPUB	16:45
		and (access adj control)) and object) and	05 10105	1 20.10
		(signature sign hash)		
_	25	((general and instrument and	USPAT	2003/10/07
_	25		USPAI	
		corporation).as. ("GI Corporation").as.)		16:47
1.		and (eisenbart chen murphy).in.		0000/10/00
-	1	((general and instrument and	USPAT	2003/10/07
		corporation).as. ("GI Corporation").as.)		16:47
		and (eisenbart (chen and ann\$3) (murphy		
		and pat\$5)).in.		
_	66	((general and instrument and	USPAT;	2003/10/07
		corporation).as. ("GI Corporation").as.)	US-PGPUB	17:15
		and (access adj control)		
l _	17	(("4982430") or ("4710955") or	USPAT;	2003/10/08
	ļ <i>*</i>	("4599647") or ("6493876") or ("6424714")	US-PGPUB	09:19
		or ("6157719") or ("6105134") or	03-FGF0B	09.19
		("6005938") or ("5870474") or ("5742677")		
'		or ("5606609") or ("5604528") or		
		("5311325") or ("5285497") or ("4890321")		
	}	or ("4866770") or ("4829569")).PN.		
-	15	6005938.URPN.	USPAT	2003/10/08
				09:10
-	0	@ad<19991112 and ((concatenat\$3 combin\$3	USPAT;	2003/10/08
		merg\$3 consolidat\$3) near (("ECM"	US-PGPUB	09:21
		entitlement) and instance))		
-	7	@ad<19991112 and ((concatenat\$3 combin\$3	USPAT;	2003/10/08
	1	merg\$3 consolidat\$3) same (("ECM"	US-PGPUB	09:21
		entitlement) and instance))		
1_	12	@ad<19991112 and ((concatenat\$3 combin\$3	USPAT;	2003/10/08
-	""	merg\$3 consolidat\$3) same (("ECM"	US-PGPUB	09:27
			03 10100	55.27
	010	entitlement) same (instance object)))	IICDAM.	2003/10/09
-	219	@ad<19991112 and "digital signature" and	USPAT;	2003/10/08
		(sign\$9 near (multiple several	US-PGPUB	09:28
		plurality))		0000/10/00
-	213		USPAT;	2003/10/08
	İ	(sign\$9 adj2 (multiple several	US-PGPUB	09:32
		plurality))		
-	78	@ad<19991112 and "digital signature" and	USPAT;	2003/10/08
		(sign\$9 adj2 (group))	US-PGPUB	10:04
-	25	"6005938"	USPAT;	2003/10/08
	1		US-PGPUB	10:05
l –	1	("6005938").PN.	USPAT;	2003/10/08
		, , , , , , , , , , , , , , , , , , , ,	US-PGPUB	10:55
_	1	("6154206").PN.	USPAT;	2003/10/08
-	1		US-PGPUB	12:35
1_	3	("5058160" "5784095" "5990927").PN.	USPAT	2003/10/08
-	1	(3030100 3704093 3990927 .PN.	ODEAL	10:55
1	Ì		1	1 10.00

			_	
-	24	("4092596" "4109281" "4322745"	USPAT	2003/10/08
		"4450477" "4475123" "4494138"		10:56
		"4536791" "4587651" "4597077"		
'		"4611242" "4623920" "4633309"		
		"4679191" "4682360" "4694490"		
		"4712239" "4716588" "4736421"		
		"4739510" "4760597" "4763317"		
İ		"4802214" "4817144" "4823386").PN.		
-	100	4450477.URPN.	USPAT	2003/10/08
				11:02
_	181	("out of band" "out-of-band") same ("EMM"	USPAT;	2003/10/08
		"ECM" entitlement authorization	US-PGPUB	12:36
		validation verification authenticaiton)		
	114	(("out of band" "out-of-band") same	USPAT;	2003/10/08
		("EMM" "ECM" entitlement authorization	US-PGPUB	12:39
		validation verification authenticaiton))		
		and @ad<19991112		
-	0	((("out of band" "out-of-band") same	USPAT;	2003/10/08
ļ		("EMM" "ECM" entitlement authorization	US-PGPUB	12:39
		validation verification authenticaiton))		·
		and @ad<19991112) and "out of band"		
-	114	((("out of band" "out-of-band") same	USPAT;	2003/10/08
		("EMM" "ECM" entitlement authorization	US-PGPUB	12:58
		validation verification authenticaiton))		
		and @ad<19991112) and "out-of-band"		
-	1	5933498.pn.	USPAT;	2003/10/08
			US-PGPUB	13:18
-	9	(("5005200") or ("5185794") or	USPAT;	2003/10/08
	1	("5247364") or ("5870474") or ("5933498")	US-PGPUB	13:18
		or ("6005938") or ("6105134") or		
		("6157721") or ("6256393")).PN.		

09/493,984 NPL Search history

Google

Entitlement AND "digital signature" ("ECM" OR "EMM") AND ("access control")

ACM

+("ECM" "EMM") entitlement signature

"access control"

+object +authentication ecm emm entitlement

IEEE

("ECM" <or> "EMM" <or> entitlement) <and> "access control" ("ECM" <or> "EMM" <or> entitlement) <and> (signature <or> hash <or> digest) object <and> signature <and> authentication